

FIG. 1

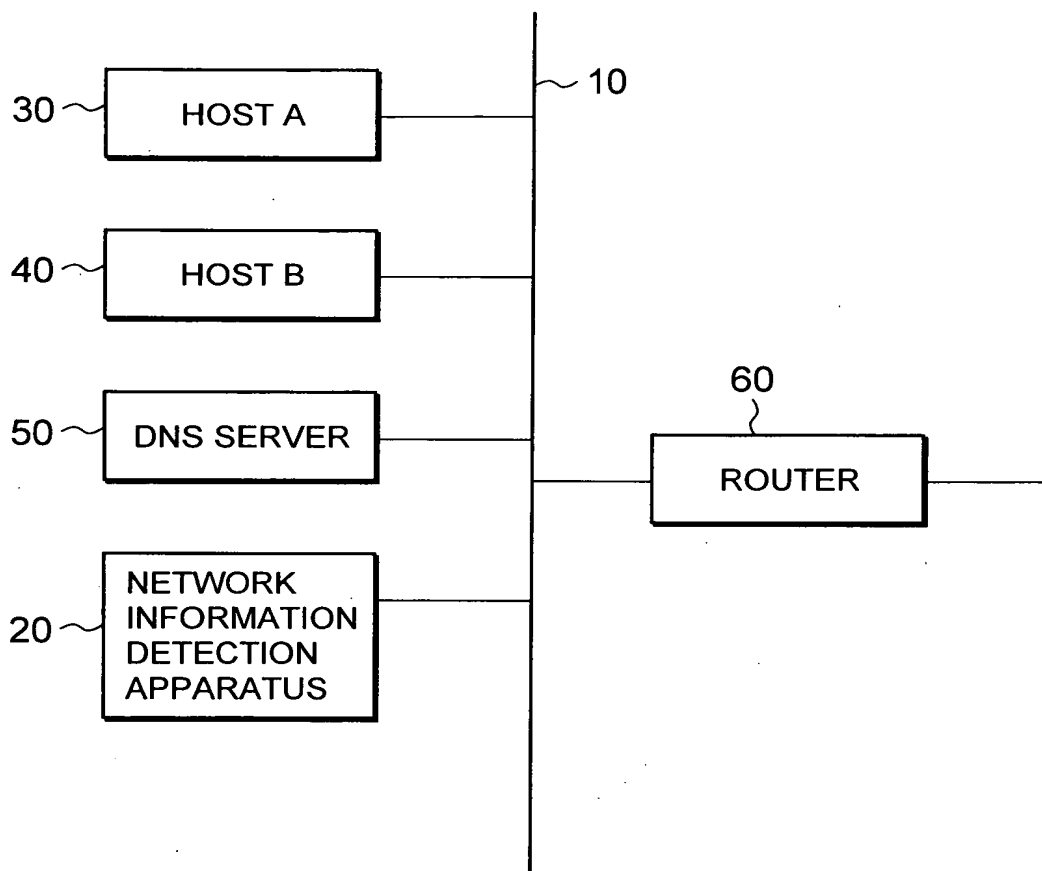


FIG. 2

## 20 NETWORK INFORMATION DETECTION APPARATUS

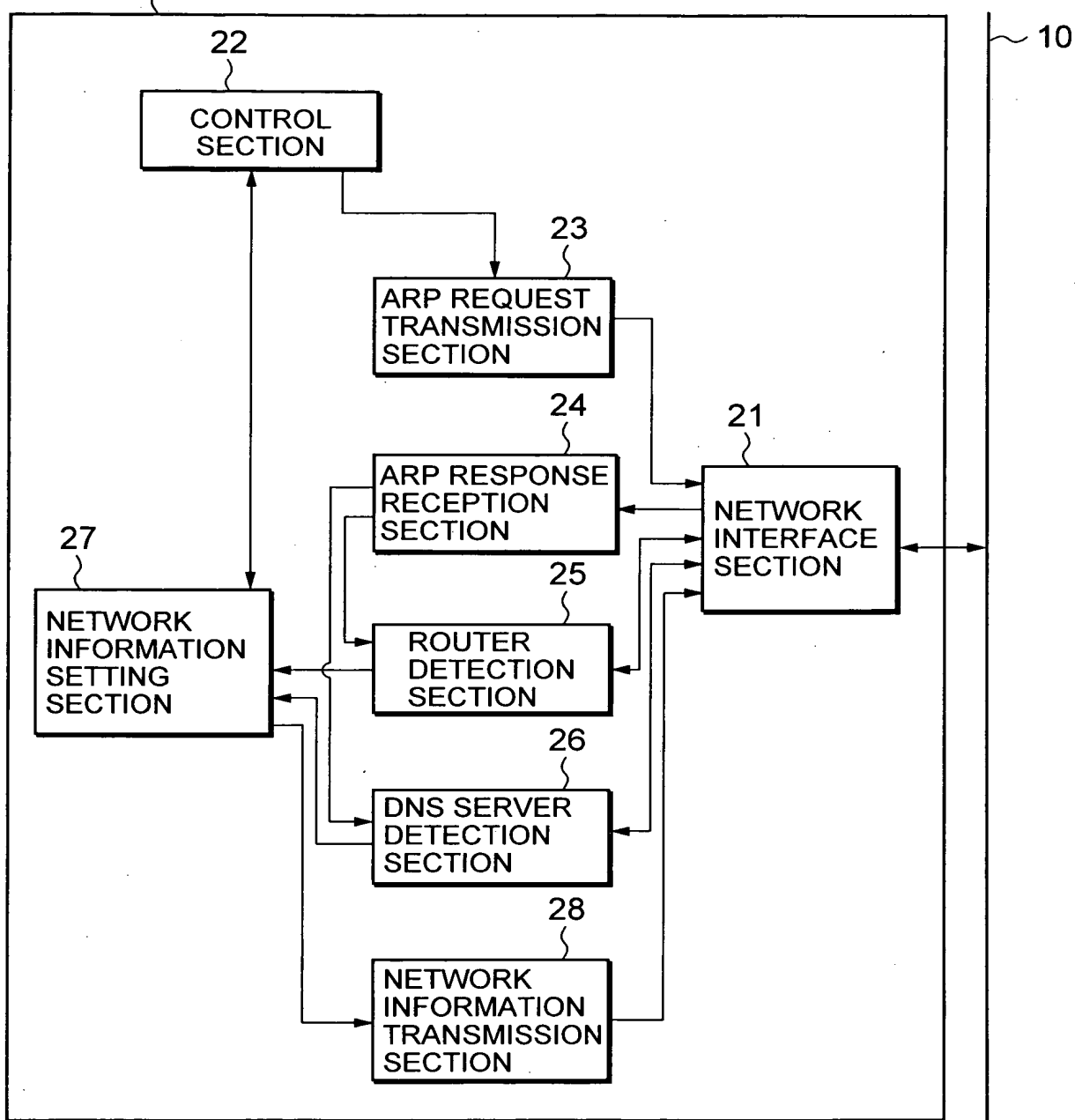


FIG. 3

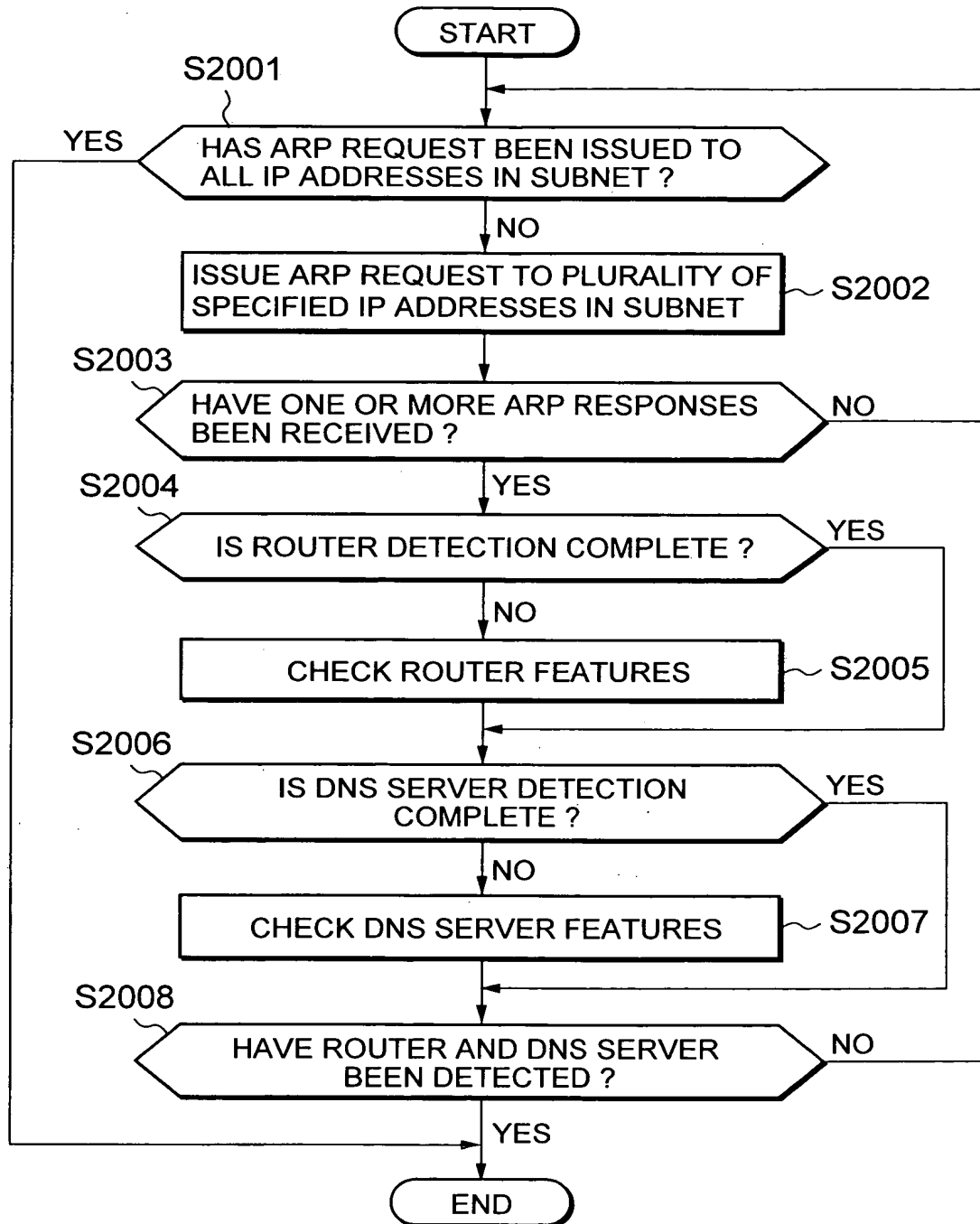


FIG. 4

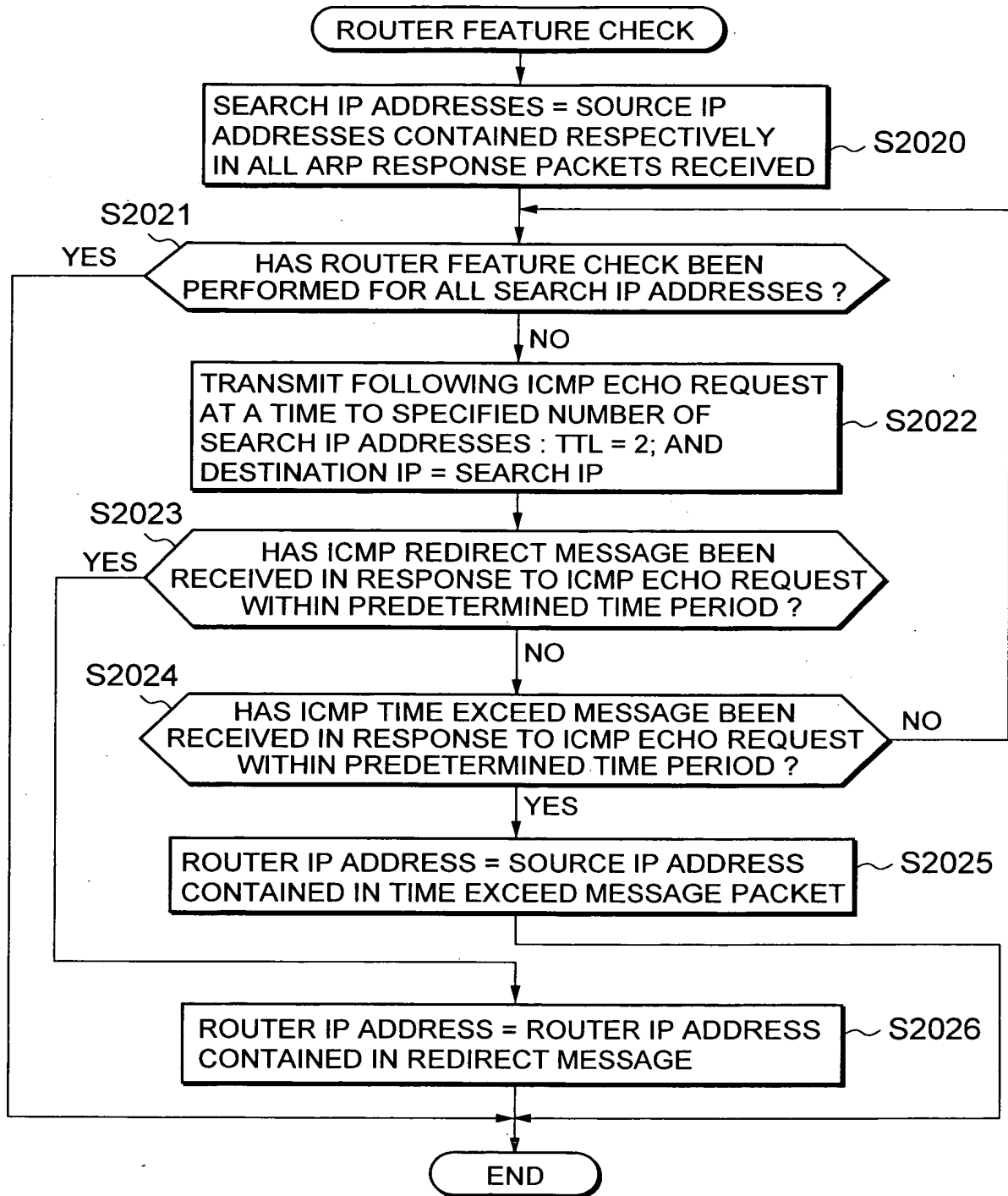


FIG.5

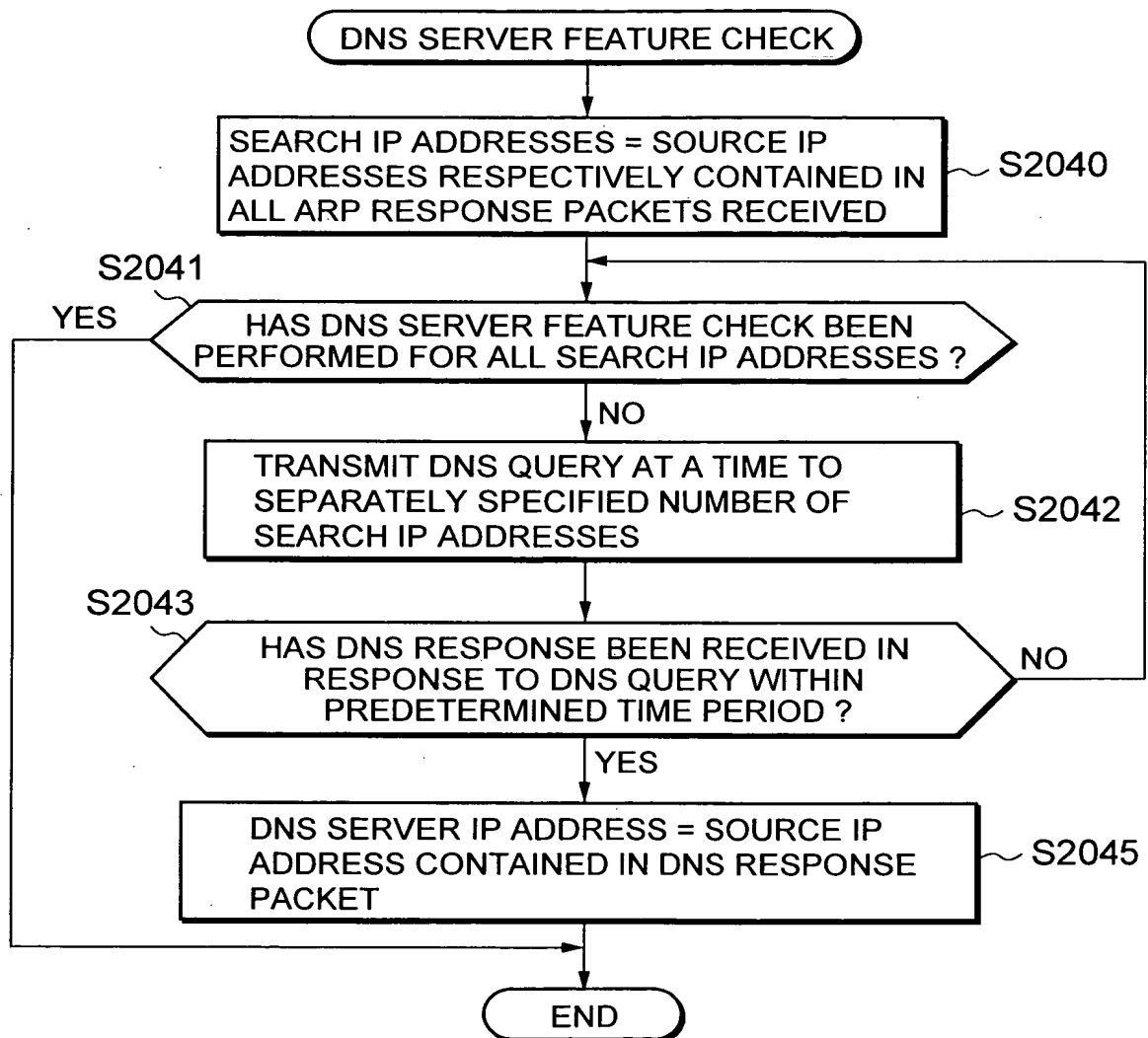


FIG.6

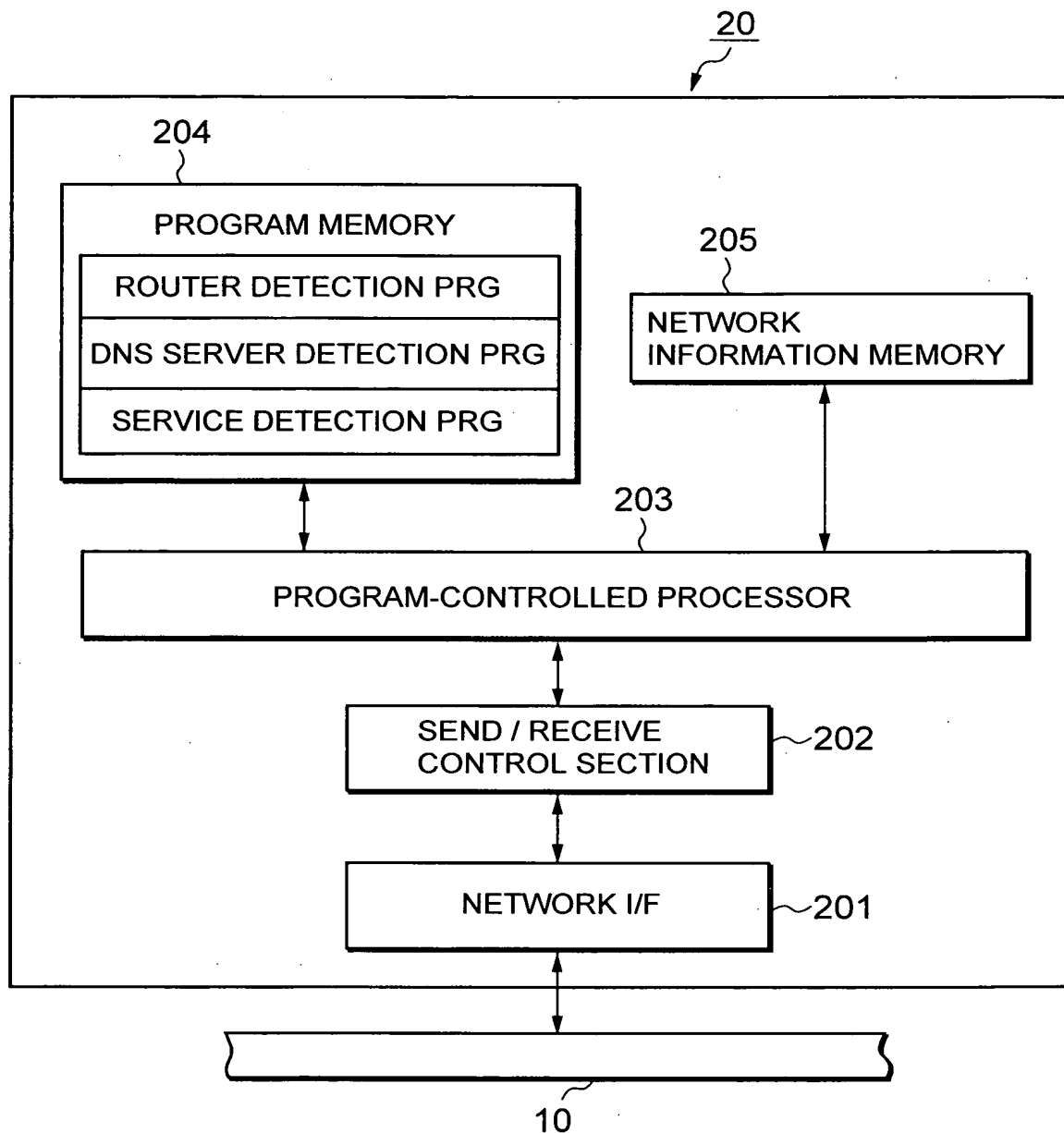


FIG. 7

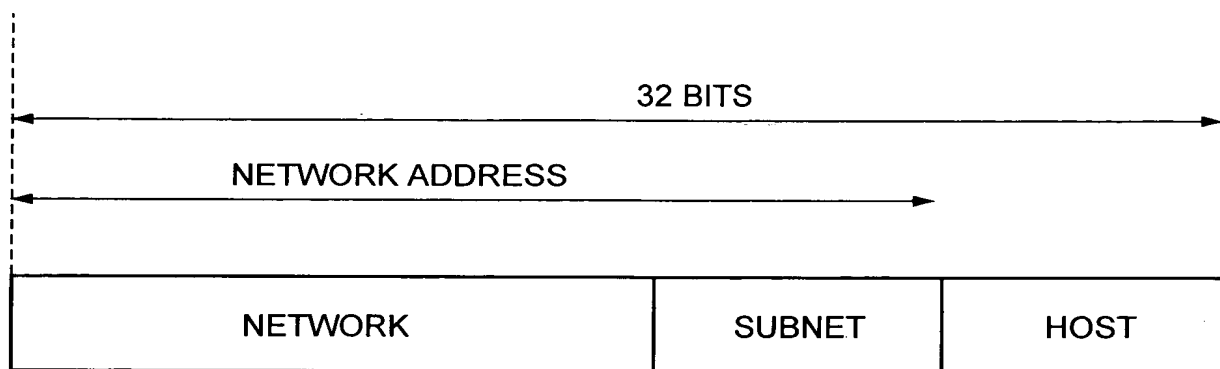


FIG. 8

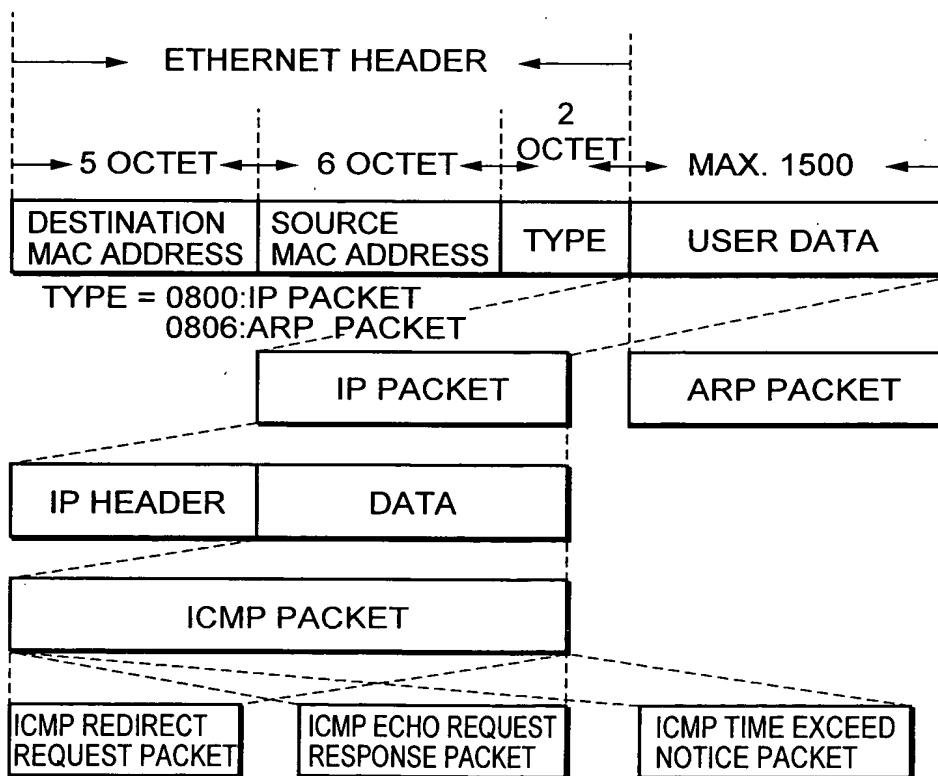


FIG.9

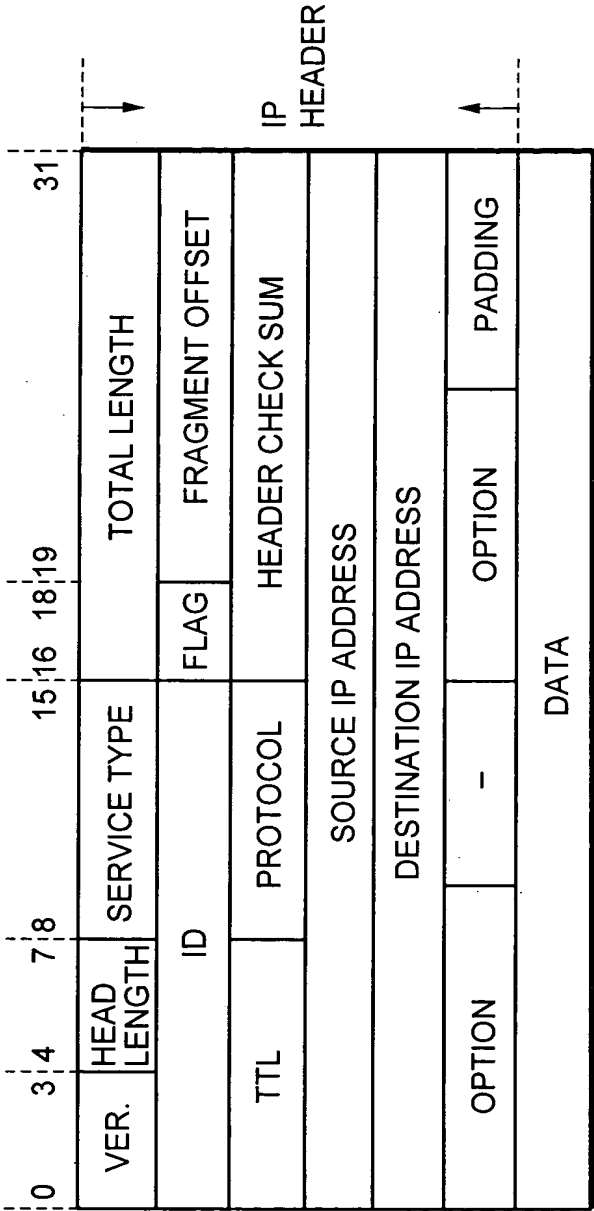




FIG.10A

0	7	8	15	16	31
TYPE		CODE		CHECKSUM	
ID				SEQUENCE	
DATA					

TYPE = 0 : ECHO REPLY  
 8 : ECHO REQUEST

FIG.10B

0	7	8	15	16	31
TYPE		CODE		CHECKSUM	
UNUSED (0)					
FIRST 64 BITS OF HEADER AND DATA OF ORIGINAL DATAGRAM					

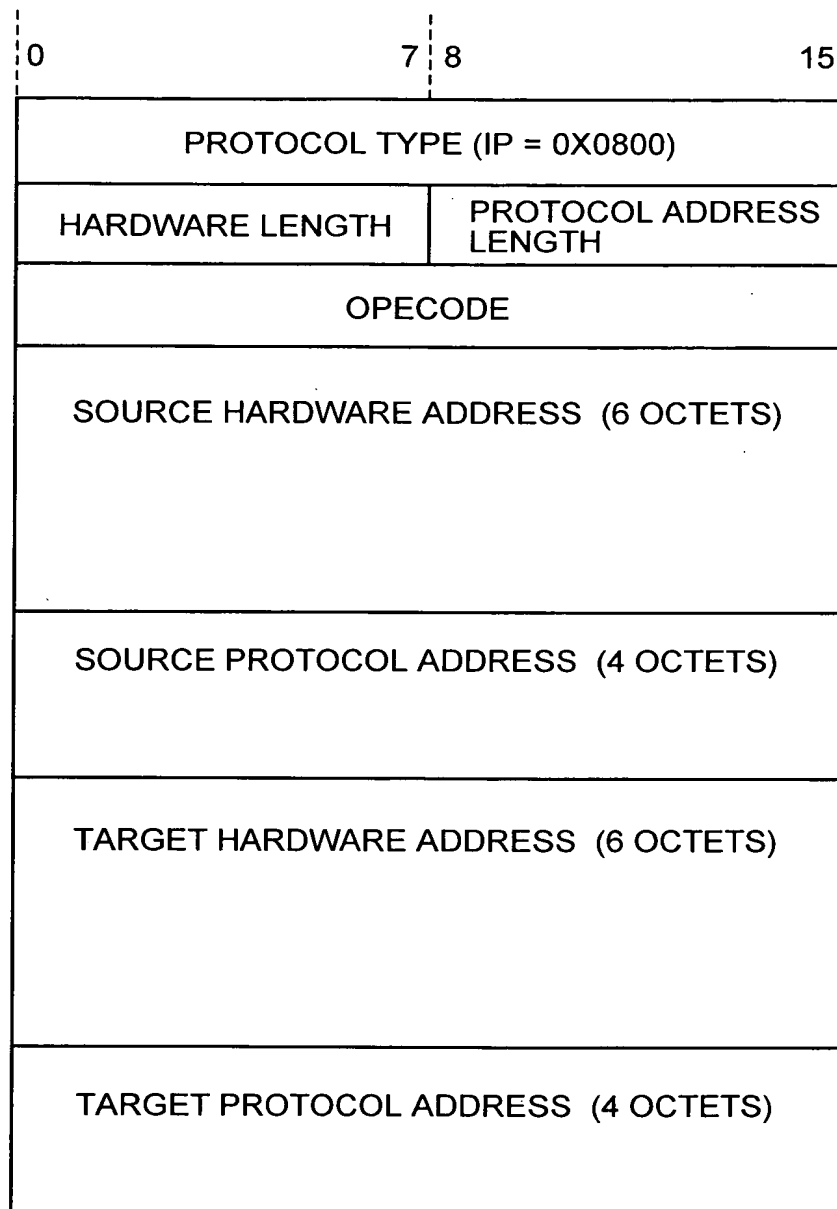
TYPE = 11 : TIME EXCEEDED FOR A DATAGRAM

FIG.10C

0	7	8	15	16	31
TYPE		CODE		CHECKSUM	
ROUTER IP ADDRESS					
FIRST 64 BITS OF HEADER AND DATA OF ORIGINAL DATAGRAM					

TYPE = 5 : REDIRECT

FIG.11



OPECODE = 1 : ARP REQUEST  
2 : ARP RESPONSE  
8 : InARP REQUEST  
9 : InARP RESPONSE

FIG.12

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ID															
OR	OPCODE				AA	TC	RD	RA	Z	RCODE					
QDCOUNT															
ANCOUNT															
NSCOUNT															
ARCOUNT															

ID : 16-BIT IDENTIFIER ASSIGNED BY QUERY-GENERATING PROGRAM

QR : QUESTION / RESPONSE; 1-BIT FIELD INDICATING

WHETHER THIS MESSAGE IS A QUESTION (0) OR RESPONSE (1)

OPCODE : 4-BIT FIELD INDICATING THE TYPE OF QUESTION OF THIS MESSAGE

- 0

1

2

3 - 15
- A STANDARD QUERY (QUERY)

AN INVERSE QUERY (QUERY)

A SERVER STATUS REQUEST (STATUS)

RESERVED FOR FUTURE USE